

R.F. TRANSISTORS AND DIODES

TABLE 1: NPN RF TRANSISTORS TO 1 WATT

The transistors shown in this table are suitable for use in a wide range of high frequency applications where high f_T , low noise and low intermodulation distortion features are required.

Typical applications include UHF/VHF amplifiers, communications equipments, domestic and automotive remote access products, and oscilloscopes.

| Device Type | V_{CB0} V | V_{CE0} V | Min. f_T at | | Max. noise figure at | | | C_{obo} or C_{re} Max. pf | h_{FE} at | | | P_{tot} mW | G_{pe} dB | Package Type |
|-------------|----------------|----------------|------------------|-------------|-------------------------|-------------|----------|--|----------------|------|-------------|-----------------|----------------|--------------|
| | | | MHz | I_C mA | N | I_C mA | f MHz | | Min. | Max. | I_C mA | | | |
| 2N3866 | 55 | 30 | 200 | 25 | — | — | — | 3.0 | 15 | 200 | 50 | 1000 | 8.5 | TO-39 |
| ZTX327 | 55 | 30 | 500 | 25 | — | — | — | 3.0 | 15 | — | 50 | 1000 | 8.5 | E-Line |
| ZTX3866 | 55 | 30 | 400 | 25 | — | — | — | 3.0 | 15 | 200 | 50 | 1000 | 8.5 | E-Line |
| MPSH10 | 30 | 25 | 650 | 4 | — | — | — | 0.65 | 60 | — | 4 | 350 | — | E-Line |
| FMMTH10 | 30 | 25 | 650 | 4 | — | — | — | — | 60 | — | 4 | 350 | — | SOT-23 |
| 2N4427 | 40 | 20 | 200 | 25 | — | — | — | 4.0 | — | — | — | 1000 | 15 | TO-39 |
| 2N2708 | 35 | 20 | 700 | 2 | 8.5 | 2 | 200 | 1.5 | 30 | 200 | 2 | 200 | 15 | TO-72 |
| BFY90 | 30 | 15 | 1300 | 25 | 5 | 1 | 500 | 1.5 | 20 | 125 | 25 | 200 | — | TO-72 |
| ZTX325 | 30 | 15 | 1300 | 25 | 5 | 2 | 500 | 0.85 | 20 | 125 | 25 | 350 | — | E-Line |
| BFS17 | 30 | 15 | 1300 | 25 | 4.5 | 2 | 500 | 0.85 | 20 | 125 | 25 | 350 | — | SOT-23 |
| 2N918 | 30 | 15 | 600 | 4 | 6.0 | 1 | 60 | 1.7 | 20 | — | 3 | 200 | 15 | TO-72 |
| FMMT918 | 30 | 15 | 600 | 4 | 6.0 | 1 | 60 | 1.7 | 20 | — | 3 | 350 | 15 | SOT-23 |
| BFQ31A | 30 | 15 | 600 | 4 | 6.0 | 1 | 60 | 1.7 | 20 | 100 | 3 | 350 | 15 | SOT-23 |
| BFQ31 | 30 | 15 | 600 | 4 | 6.0 | 1 | 60 | 1.7 | 20 | 100 | 3 | 350 | 15 | SOT-23 |
| ZTX320 | 30 | 15 | 600 | 4 | 6.0 | 1 | 60 | 1.7 | 20 | — | 3 | 300 | 15 | E-Line |
| ZTX321 | 30 | 15 | 600 | 4 | 6.0 | 1 | 60 | 1.7 | 20 | — | 3 | 300 | 15 | E-Line |
| ZTX322 | 30 | 15 | 600 | 4 | 6.0 | 1 | 60 | 1.7 | 20 | 150 | 3 | 300 | 15 | E-Line |
| ZTX323 | 30 | 15 | 600 | 4 | 6.0 | 1 | 60 | 1.7 | 100 | 300 | 3 | 300 | 15 | E-Line |